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# SEED ANNUAL

U. S. Department of Agriculture,

Washington, D. C.

**1904**

## MICHAEL'S SEED STORE

GARDEN, FIELD AND  
GRASS SEEDS

ALFALFA, TIMOTHY, CLOVER AND FARM  
SEEDS A SPECIALTY

**SIOUX CITY, IA.**

**316  
PEARL ST.**



# SPECIAL NOTICE

To every man, woman and child who contemplates planting seeds the coming spring, we want to say that it will pay you and pay you well to buy your seed of any kind at a **Seed Store**. There you will find fresh new stocks and a full line of everything in Seeds, and greatly too to your advantage in both price and quality. Our **Garden seed**, we want to say, are the very best obtainable, planted, grown and saved by special growers of the different kinds of seed especially for our business. The **Field and Grass** we handle are clean and pure, free from foul and obnoxious weed seeds. We invite every farmer to come and see our stocks before sending away for their seed and feel satisfied that when you see our stock that you will do business with us.

Very kindly yours,

J. S. MICHAEL.

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See Interstate Fair ad. 3rd Page Cover.

## TABLE OF WEIGHTS AND MEASURES And Quantity per Acre of Field and Grass Seed

Weights per Bushel	POUNDS
Barley.....	48
Beans.....	60
Blue Grass.....	14
Bromus Inermus Grass.....	14
Broom Corn.....	46
Buckwheat.....	48
Cane.....	50
Clover.....	60
Corn, shelled.....	56
Corn, on ear.....	70
Corn, Sweet or Sugar.....	48
Flax Seed.....	56
Hemp Seed.....	44
Hungarian.....	48
Lawn Grass.....	14
Millet.....	48
Oats.....	32
Orchard Grass.....	14
Pasture Grass Mixture.....	14
Peas, smooth.....	60
Peas, wrinkled.....	56
Popcorn, new (on ear).....	70
Potatoes, heaping measure.....	60
Pumpkin, Field.....	26
Red Top.....	14
Rye.....	56
Timothy.....	45
Wheat.....	60

Quantity per Acre	
Barley broadcast.....	2 to 3 bu
Beans, Dwarf, in drills.....	1½ bu
Buckwheat.....	1 bu
Cane, in drills.....	12 qts
Cane, broadcast.....	1½ to 2 bu
Clover, Lucerne or Alfalfa.....	20 lbs
Clover, Red, alone.....	8 to 10 lbs
Clover, White or Alsike.....	6 to 10 lbs
Corn, in hills.....	8 to 10 qts
Flax, broadcast.....	1½ bu
Grass, Blue, Ky. or Eng.....	1 to 2 bu
Grass, Bromus Inermus.....	1 to 2 bu
Grass, English Rye.....	1 to 2 bu
Grass, Lawn.....	50 to 75 lbs
Grass, Orchard.....	1 to 3 bu
Grass, Red Top, in chaff.....	2 bu
Grass, Red Top, solid seed.....	12 lbs
Grass, Timothy.....	¼ to ½ bu
Millet, broadcast.....	½ to 1 bu
Oats, broadcast.....	2 to 3 bu
Onions, in drills.....	4 to 6 lbs
Peas, in drills.....	1½ bu
Peas, broadcast.....	2 to 3 bu
Potatoes, cut tubers.....	10 bu
Rape, Dwarf Essex.....	4 to 6 lbs
Rye, broadcast.....	1½ to 2 bu
Turnip, broadcast.....	3 to 4 lbs
Wheat, broadcast.....	1½ to 2 bu

316 Pearl St.  
SIOUX CITY, IA.

**J. S. MICHAEL**

Seed Merchant

# MARKET GARDENERS' PRICE LIST BULK SEEDS

**BEANS, PEAS AND SWEET CORN** come first—  
other **SEEDS** In alphabetical order.

## CASH PRICES

### BEANS

Beans are very sensitive to both cold and wet. It would be useless to plant them until the ground is warm. They can be safely planted first when the apple is in bloom. For garden culture make your rows about 18 inches apart, and plant the beans so that the vines may grow four inches apart in the rows. Beans mature in about 30 to 50 days after germination. One quart plants about 100 foot row.

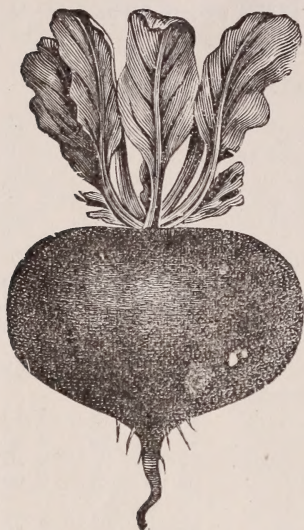
	PT.	QT.	PK.
<b>Dwarf Wax Sorts</b>			
✓ Golden Wax .....	\$0 15	\$0 25	\$1 90
✓ German Black Wax .....	15	25	2 00
✓ Davis' White Wax .....	15	25	1 85
✓ Wardell's Kidney Wax .....		Crop Failed.	
✓ New Refuge Wax .....	15	25	1 75
<b>Dwarf Green Pod Sorts</b>			
✓ Early Red Valentine .....	10	15	1 15
✓ Early Six Weeks .....	10	15	1 15
✓ Stringless Green Pod .....	15	25	1 35
✓ Burpee's Bush Lima .....	20	25	2 00
<b>Pole Varieties</b>			
✓ Large White Lima .....	15	25	1 75
✓ Lazy Wife .....	15	25	1 75
<b>Field Sorts</b>			
White Navy .....	\$3 00 per bu.		

### PEAS

Peas are among the earliest seeds that can be planted at the close of winter. The round, smooth sorts are the hardiest and are often planted without danger before the frost is out of the ground. The wrinkled sorts are not so hardy, and cannot with safety be planted quite as early; but plant all kinds as early as possible and plant on a warm, quick, rich soil. Peas will mature earlier if planted only an inch deep, where earliness is most important they should not be planted deeper, but larger pods and more of them may be had by deeper planting. Dwarf varieties are planted in rows 15 inches to two feet apart. Two quarts of seed sows a hundred yards of rows.

	PT.	QT.	PK.
✓ Michael's Early June .....	\$0 10	\$0 15	\$1 00
✓ Alaska, Earliest of All .....	10	15	1 00
✓ Ferry's First and Best .....	15	20	1 25
✓ McLean's Little Gem .....	15	25	1 50
✓ American Wonder .....	15	30	1 80
✓ Nott's Excelsior .....	15	30	1 80
✓ Hosford's Market Garden .....	10	15	1 00
✓ Advancer .....	10	15	1 10
✓ Abundance .....	10	15	1 00
✓ Yorkshire Hero .....	10	15	1 00
✓ Telephone .....	15	25	1 40
✓ Champion of England .....	10	15	1 00
✓ Marrowfat .....	10	15	60
✓ Field Peas, \$2.00 per bu. ....		10	60
✓ <b>SWEET CORN—Extra Early Cory</b> .....	10	20	1 25
✓ Early Minnesota .....	10	15	1 00
✓ Michael's Red Cross Early Evergreen .....	10	15	1 00
✓ Crosby's Early .....	10	15	1 25
✓ Stowell's Evergreen, select, extra choice .....	15	25	1 75
✓ Evergreen Sweet Corn for Fodder, per bu. ....	Market price.		





**Beet.**—Extra Early Forcing.  
Per oz. 10c.

**CARROTS**  
Carrots require a deep, well-worked soil. For bunching, the Oxheart, Danvers and Chantenay are the best; for feeding stock grow the Belgian varieties, which yield big crops. 3 oz. of seed for 100 yards.

Read about Big Four Oats, Page 15.



**Carrots.**—Michael's Perfect Strain of Oxheart. Per oz. 15c.

## BEETS

### Table Sorts

	OZ.	$\frac{1}{2}$ LB.	LB.
✓ Egyptian Extra Early Turnip Blood.....	\$0 05	\$0 20	\$0 35
✓ Crosby's Egyptian, Very Early Dark Red.....	5	25	40
✓ Dewing Early Turnip Blood.....	5	20	35
✓ Edmund's Early Turnip Blood.....	5	20	35
✓ Early Dark Red Turnip Blood.....	5	20	45
✓ Eclipse.....	5	20	35
✓ Long Smooth Blood Red.....	5	20	35
✓ Half Long Blood Red.....	5	20	35

### Sugar Sorts

	OZ.	LB.	10LB.
✓ Imperial French Sugar.....	5	20	1 50
✓ Red Top White Sugar.....	5	20	1 50
✓ Klein Wanzleben Sugar Beet.....	5	20	1 50

### For Cattle

✓ Mammoth Long Mangle.....	5	20	1 50
✓ Golden Tankard.....	5	20	1 50
✓ <b>BROCOLI</b> —Large Early White.....	35		
Landreth's Purple.....	40		
✓ <b>BRUSSEL SPROUTS</b> —Improved Dwarf.....	10		

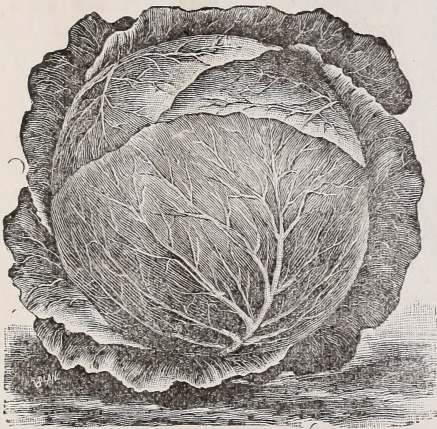
## CARROTS

	OZ.	$\frac{1}{4}$ LB.	LB.
✓ Early Short Horn.....	10	20	65
✓ Oxheart.....	10	20	60
✓ Danvers Half Long.....	10	20	60
✓ Chantenay Stump Rooted.....	10	20	65
✓ Long Orange.....	10	20	50
✓ White or Yellow Belgium for stock.....	5	15	35

## CABBAGE

Where any vegetable attains its highest degree of perfection, there we may expect to grow the most select and purest strains of seed. Long Island, N. Y., is a most favored spot for the growing of Cabbage. Leading seedsmen of America get their select stocks grown there. The seed we offer is grown on Long Island by a most careful grower, and we offer it with the full assurance that it is the best in the world. Three oz. seed to 100 yards of rows for plant growing.

For Seed Corn See Page 14.



**Cabbage**—Henderson's Early Summer.  
Choicest and best. Per oz. 20c.



**Cabbage**—Select Very Early Jersey  
Wakefield. Per oz. 20c.

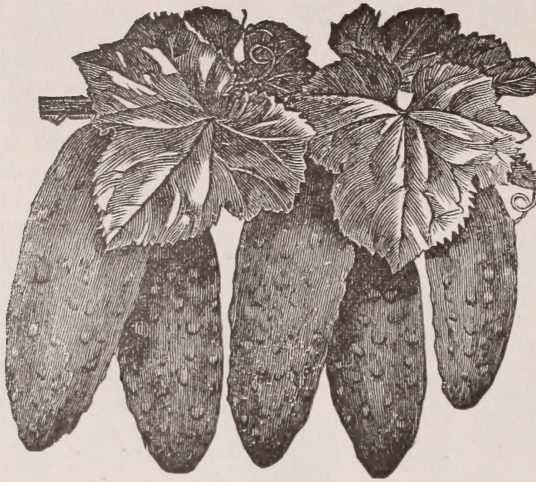
### CABBAGE

	oz.	¼ LB.	LB.
✓ Early Jersey Wakefield, selected .....	\$0 20	\$0 60	\$2 00
✓ Early Winningstadt, extra fine improved .....	15	60	1 50
✓ Reedland's Early Drumhead .....	25	1 00	3 75
✓ Henderson's Early Summer, select .....	20	60	1 75
✓ Early Flat Dutch, very select .....	15	50	1 50
✓ Succession, very select .....	20	75	2 00
✓ Fottler's Brunswick .....	15	50	1 50
✓ Hollander or Danish Ball Head .....	20	65	2 00
✓ Large Flat Dutch, premium select .....	15	40	1 35
✓ Sure Head .....	15	50	1 50
✓ Marblehead Mammoth .....	15	50	1 50
✓ Large Late Drumhead .....	15	40	1 30
✓ Mammoth Red Rock .....	25	75	2 00

✓ <b>CAULIFLOWER</b> —Early Snowball .....	2 25	-----	-----
✓ Large Erfurt, choicest of all late varieties .....	2 00	-----	-----

✓ <b>CELERY</b> —Giant Pascal, Pacific coast grown .....	15	50	1 50
✓ White Plume, Pacific coast grown .....	15	50	1 50
✓ Golden Self Blanching, Pacific coast grown .....	25	75	2 50
✓ Celeriac Root Celery .....	15	50	2 50





Cucumber—Boston Pickling, 20c oz.

**CUCUMBERS**

Seed crop very short  
again this year.

Cucumbers thrive best on warm, rich sandy soil, the richer the better. Crop should never be planted until soil is warm and the trees are out in full leaf. Plant in hills 4 feet apart and thin to about 4 plants to the hill. Second planting about middle July for Fall. 1 oz. for 50 hills.

	oz.
✓ Early Frame.....	20c
✓ Boston Pickling.....	20c
✓ Chicago Pickling.....	20c
✓ White Spine.....	20c
✓ Long Green.....	20c



✓ **Lettuce**—Black Seeded Simpson. The best for forcing of early sowing out of doors. One oz. will sow 50 sq. ft. Per oz., 10c.



✓ **Lettuce**—White Stone Head. New sort of best quality. 10c oz.

**LETTUCE**

	½ OZ.	¼ LB.	½ LB.
✓ Ferry's Early Prize Head.....	\$0 05	\$0 20	\$0 35
✓ Early Curled Simpson's Black Seeded.....	5	20	35
✓ Early Curled Simpson's White Seeded.....	5	20	35
✓ Hanson.....	5	20	35
✓ Early Curled Selicia.....	5	20	35
✓ White Stone Head.....	5	20	35

	PER OZ.
✓ <b>CRESS</b> —Garden Varieties.....	5c to 10
✓ <b>ENDIVE</b> —Moss Curled.....	10c to 15
✓ <b>KALE</b> or <b>BORECOLE</b> —Green Curled.....	10
✓ <b>EGG PLANT</b> —Thornless large round purple.....	25
New York Improved.....	25
✓ <b>KOHL RABI</b> —Early White Vienna or Purple.....	15
✓ <b>LEEK</b> —London Flag.....	10

For  
Grass  
Seed  
See  
Page 11



## MELONS

The essential thing in melon culture is to get good strong vines early in the season. To this end plant your melons in hills, eight feet apart, made rich with some good fertilizer or well rotted manure, thoroughly mixed with the soil. As soon as the ground is warm and dry plant fifteen to twenty seeds in each hill



**The Great Rockyford Muskmelon**



**Coles Early**

and thin out when the plants begin to grow, leaving only three to five of the most vigorous. Protect the young plants from insects and hasten their growth by the use of liquid manure. From three to five pounds plant an acre.

### PENCELLARIA

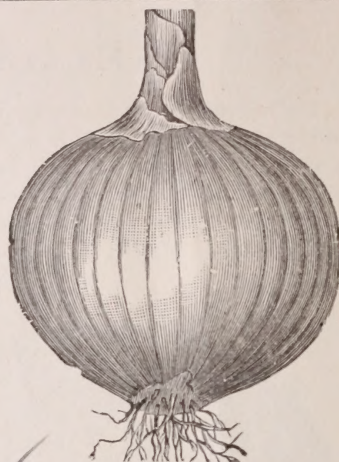
The wonderful new forage plant, per lb. \$0 25

### MUSK MELON

	oz.	1/2 LB.	LB.
✓ Extra Early Green Citron, Cantaloupe.....	\$0 10	\$0 60	\$1 00
✓ Extra Early Hackensack.....	10	60	1 00
✓ Large Hackensack.....	10	50	90
✓ Golden Netted Gem.....	10	25	45
✓ Emerald Gem.....	15	1 00	1 75
✓ Osage.....	15	75	1 25
✓ Rocky Ford.....	5	25	50
✓ Paul Rose, New.....	5	30	60

### ✓ WATER MELONS—Cole's Early (best early)...

✓ Vick's Early.....	5	35	60
✓ Ferry's Peerless.....	5	25	45
✓ Phinney's Early.....	5	25	40
✓ New Triumph.....	5	25	45
✓ The Boss.....	10	50	90
✓ Georgia Rattlesnake.....	5	25	45
✓ Monte Cristo.....	5	25	50
✓ McVicar's Sugar.....	5	25	50
✓ Cuban Queen.....	5	20	35
✓ Kolb's Gem.....	5	20	35
✓ Dixie.....	5	20	35
✓ Duke Jones.....	5	20	35
✓ Sweet Heart.....	5	20	40
✓ Black Diamond.....	5	20	40



✓ **Large Red Wethersfield**—The best known of all the Onions. Good sellers, great keepers, the best of all standard sorts. My stock of this Onion seed is most select and sure to grow. Oz. 10c; 1 lb. 80c.

✓ **Southport Red Globe**—These Onions bring a premium in any market. Per oz. 10c; ½ lb. 60; 1 lb. \$1.00.

ONIONS	OZ.	½ LB.	LB.
✓ Extra Early Red Flat	\$0 10	\$0 50	\$0 80
✓ Large Red Wethersfield (5 lbs. \$4; 10 lbs. \$7.50)	10	50	80
✓ Southport Large Red Globe (10 lbs. \$9.00)	10	60	1 00
✓ White Globe	15	1 00	1 50
✓ Yellow Globe Danvers	10	50	80
✓ Prize Takers	10	60	1 00
✓ White Silver Skin	15	80	1 50
✓ Mammoth Silver King	15	80	1 50
✓ New Queen (for pickling)	15	1 00	1 75

Special prices in large lots on all kinds.

**ONION SETS**—10c to 15c per qt. Special prices in quantities.

	OZ.	½ LB.	LB.
✓ <b>PARSLEY</b> —Champion Moss Curled	\$0 10	\$0 35	\$0 60
✓ <b>PARSNIPS</b> —Hollow Crown	5	20	30
✓ Bloomsdale	5	30	50
✓ <b>PEPPER</b> —Large Bell Bullnose	15	See Interstate Fair ad. op. page 20	
✓ Ruby King	15		
✓ Golden Dawn	15		
✓ <b>PUMPKIN</b> —Common Field	5	\$0 20	\$0 30
✓ Sweet Sugar	5	30	50
✓ Mammoth Interstate Fair	10	50	1 00
✓ <b>SQUASH</b> —Early White Bush (patty pan)	5	25	50
✓ Golden Summer Crookneck	5	25	50
✓ Hubbard, Extra Warty	10	60	1 00
✓ Boston Marrow	5	35	60
✓ Sweet Potato Squash	5	25	50
✓ Mammoth Chili	10	75	1 25



<b>RADISHES</b>	<b>Early Scarlet Turnip</b>	<b>OZ.</b>	<b>1/2 LB.</b>	<b>LB.</b>
✓	Scarlet Turnip White Tip	\$0 05	\$0 25	\$0 40
✓	French Breakfast	5	25	45
✓	Early Scarlet Globe	5	30	50
✓	No Plus Ultra	5	30	50
✓	Long Scarlet Short Top	5	25	40
✓	Brightest Long Scarlet	5	25	45
✓	Chartier	5	35	65
✓	White Vienna or Lady Finger	5	30	45
✓	White Strasburg	5	25	50
✓	Early White Turnip	5	25	50
✓	Calf. Mammoth White Winter	5	25	60
✓	Rose China Winter	5	35	60
✓	Black Spanish, round or long	5	30	50

Special prices five to ten lb. lots.



Radish—Early Scarlet  
Globe

French  
grown  
Radish Seed  
are the  
purest  
and finest  
known

One ounce  
drilled will  
sow 50 ft.  
row

**LANG'S  
HAND  
WEEDER**

**HANDIEST  
TOOL**



**ON EARTH.**

**30¢  
By MAIL  
PREPAID**

**Best Weeder in the Market  
to Weed Radishes With**

	<b>OZ.</b>	<b>1/2 LB.</b>	<b>LB.</b>
✓ <b>SALSIFY</b> —Mammoth Sandwich Island	\$0 10	\$0 60	\$1 00
✓ <b>SPINACH</b> —Bloomsdale, (10 lb. lots \$1.50)	5	15	25
✓ Long Standing (10 lb. lots \$1.50)	5	15	20
✓ Grant Thick Leaf “	5	15	25
	<b>1/2 OZ.</b>	<b>OZ.</b>	
✓ <b>TOMATO</b> —Atlantic Prize or Early Advance	\$0 10	\$0 15	
✓ Matchless Very Early	10	15	
✓ New Stone	10	15	
✓ Dwarf Champion	15	25	
✓ Acme	10	15	
✓ Trophy	10	15	
✓ Yellow Pear Shaped	10	20	
	<b>OZ.</b>	<b>1/4 LB.</b>	<b>LB.</b>
✓ <b>TURNIP</b> —Extra Early White Milan	\$0 10	\$0 20	\$0 65
✓ Extra Early Purple Top Milan	5	20	60
✓ Early White Flat Dutch	5	15	35
✓ Purple Top Strap Leaf	5	15	35
✓ Purple Top White Globe	5	15	35
✓ Yellow Aberdeen	5	15	40
✓ <b>RUTABAGA</b> —Bloomsdale Swede	10	20	60
✓ Purple Top, Long Island (Yellow flesh)	5	15	35



## FLOWER SEED IN BULK

1-16 oz.

Alyssum, Sweet Scented, Little Gem	0 05
Asters, mixed sorts, many colors	10
Asters, Dwarf Queen, all colors	15
Balsam, all colors, mixed sorts, single or double	10
Candy Tuft, all colors, mixed	05
Carnations, Marguerites, finest mix	10
Cosmos, (early flowering), choice mixed	10
Cypress Vine, mixed colors	05
Forget Me Not	10
Four O'clock, mixed colors	10
Marigold, double, mixed	10
Mignonette, many sorts, mixed	05
Morning Glory, large flowering Jananese	05
Moonflower, new beautiful pink	10
Moss Rose (portulaca) single, 1-16 oz., 10c; double	20
<b>Nasturtium</b> Tall or Dwarf, mixture, 10c per oz.	
" King Theodores, rich red flower, dark foliage per oz.	15c
" Chameleon, varied changing, rich colors, per oz.,	20c.
" Golden King, rich yellow dwarf, per oz.,	15c.
Pansies, very finest mixture, all colors	10
Pansies, New Double Pansy Masterpiece	50
Pansies, Giant Bugnot and Giant Trimardeau, in grand mixture	15
Petunia, fine mixed, single, 1-16 oz., 10c; double	25
Phlox, fine mixed, Drummond	15
Phlox, Star of Quedlinburg (Star Phlox) mixed	15
Pink, double mixed, 1-16 oz., 10c; Double Red Midnight	10
Poppy, double carnation flowered	10
Poppy, Maid of the Mist (giant bloomer)	10
Stocks, good mixed	20
<b>Sweet Peas</b> , fine mixture oz., 5c; ¼ lb., 15c; lb., 35c.	
" " Eakford's Hybrid, mixture oz., 10c; 2 oz., 15c.	
" " named varieties oz., 10c; 2 oz., 15c.	
Sweet Williams, single, 1-16 oz., 10c; double, mammoth flower	15
Verbena, fine mammoth mixed	10
Wild Cucumber (climber)	05
Wild Flower Garden Mixture	05
Zennia, double mixed large flowering	05



## BULBS FOR SPRING PLANTING



**Barbonica Palm**

This is the hardiest of the Palm family and lives, thrives and grows under the most adverse conditions.  
15 to 18 inches, 90 cents.



**Elephant's Ear**

(Calladium Esculeutum)

Grand tropic-looking plant, a favorite for specimens on the lawn. In rich soil, if freely watered, they produce enormous leaves, frequently four feet long by three feet wide; height 4 to 5 feet. Fair sized bulbs 10c each; medium bulbs 25c; monster 50c to \$1.50 each.

### Flowering Bulbs

We offer only selected stock of the best bulbs

	EACH	DOZ.
Canna, mixed colors.....	\$0 10	\$1 00
Canna Bronze leaved.....	10	1 00
Cinnamon Vine.....	5	50
Dahlias.....	15	1 75
Lilies—Auratum, Rubrum and Album.....	10c to 15	\$1 00 to 2 50
Gladiolus.....	2c to 5	20 to 50
Maderia, Vine Roots.....	5	40
Peonies—Mixed or named.....	15	25
Tube Roses.....	2 for 5c.	25

### Hardy Perennial Plants

	EACH	DOZ.
Bleeding Heart, Hardy Perennial.....	\$0 15	\$1 50
“ “ Exima Hardy Perennial, blooms all sum.....	25	2 00
Blanket Flower, Hardy Perennial, blooms all summer.....	15	1 25
Carnations, “ “ “ “ “ “.....	15	1 50
Daisy Shasta, Hardy Perennial.....	10	1 00
Larkspur “ “ “ “ “ “.....	15	1 25
Holly, Hock Hardy Perennial, Red or White.....	15	1 25
Lily “ “ “ “ “ “.....	15	1 25
Lily of the Valley, in clumps.....	50	
Phlox, Hardy Perennial, mixed.....	15	1 50
Pinks “ “ “ “ “ “.....	10	1 00

### Bedding Plants

	EACH
Dusty Miller.....	10
Geranium, grown in 2½ inch pots.....	10c to 25
Petunias.....	10
Pansy Plants, Giant Bugnot varieties, potted.....	5
Pansy Plants, large, all colors; per box of 12, 25c to 40c.....	
Verbena.....	15



**Kentucky Blue  
Grass**

## Bromus Inermis

(Awnless Brome Grass)

A hardy perennial, standing extremes of heat, cold and drought better than any other of our cultivated grasses. Is especially adapted to the Northwest. It grows with great rapidity and produces heavy hay crops and luxuriant pastures. All kinds of stock eat it greedily, and the analyses made show that it is exceedingly rich in flesh-forming ingredients. Sow about 20 pounds to the acre. Price 15c per lb; \$10 per 100 lbs, subject to market change. Will make you a very close price on big lots.

## Kentucky Blue Grass

The universal pasture grass of America and the finest lawn grass in the world is our own Kentucky Blue Grass. It starts like magic with the first smile of spring, and is a velvet of green until winter comes again. It can be sown on the wild prairie and will catch, but the best results are to be had by getting the seed well covered. The seed we offer comes directly from Kentucky in car lot, and is fresh, clean and pure. Price 15c per pound. Close price in quantity; \$1.50 per bu. in 8-bu. lots for the very best quality.



**Bromus Inermis Grass**

## Grass, Field and Farm Seeds

We quote only today's values on Clover and Grass seed. Ask for sample and special price on quantity. Come and see us. Prices here quoted run according to grade and quality. Bags EXTRA, 15c to 18c each. Special discount on big lots.

**Remember that these Prices are Subject to Market Changes.**

<b>Clover</b> —Medium Red .....	15c lb.,	Market Price per bu. of 60 lbs.	
Mammoth Red .....	15c lb.,	" " "	60 "
White .....	20c lb.,	" " "	60 "
Alsike .....	15c lb.,	" " "	60 "
<b>Alfalfa</b> —Northern grown seed .....	15c lb.,	" " "	60 "
<b>Alfalfa</b> —Turkestan Imported from Asiatic Russia, hardiest .....			25c per lb.
<b>Timothy Seed</b> .....		\$1.25 to \$1.50 per bu. of 45 lbs.	
<b>Red Top</b> —Cleaned, fancy solid seed .....	15c per lb.,	\$9 to \$10 per 100 lbs.	
<b>Ky. Blue Grass</b> —Export extra fancy cleaned .....		\$1 65 per bu. of 14 lbs.	
Ky. Blue Grass, fancy cleaned, in 8 bu. bags .....	1 50	" "	14 "
*English Blue Grass .....	1 00	" "	14 "
Canadian Blue Grass .....	1 25	" "	14 "
<b>Rye Grass</b> —Italian .....	1 00	" "	14 "
English .....	1 00	" "	14 "
<b>Orchard Grass</b> .....	2 00	" "	14 "
<b>Lawn Grass</b> —Evergreen Central Park Mixture .....		15 per lb.	
Ky. Blue, special for lawns .....		15 "	
<b>Bromus</b> —Inermis .....	\$0 15 per lb.;	\$10 per 100 lbs.	
<b>Millet</b> —German .....	75 to \$1	per bu. of 48 lbs.	
Common .....	75 to 1	per bu. of 48 lbs.	
<b>Pencillaria</b> —New Forage Plant .....		25c per lb.	

Fancy German Tenn. grown seed, see page 12.

\*We have an extensive stock of English Blue Grass at a special low price in quantity.

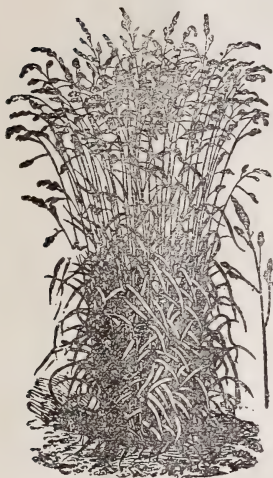


These Prices are Subject to Market Changes

## English Blue Grass

### Meadow Fescue

In just a few years this grass has come to the front like magic. This is due to the fact that it is a success everywhere, on all kinds of land and never freezes out. It comes early in the spring, is green all summer and lasts until late autumn. It's a nutritious pasture and a valuable hay crop too. It's a perennial 2 to 3 ft. high, and heads out in June. You can't sow it in the air and get it to



Orchard Grass

grow in the ground, but if the land is at all cultivated and the seed well covered it is sure to grow. We unhesitatingly recommend it to every farmer. Price best seed per bu., \$1. One bushel per acres. Special price on quantity.

**ORCHARD GRASS**—This grass does well everywhere, makes a splendid permanent pasture, and for hay can be cut much earlier than timothy. Succeeds the best of all grasses in timbered lands or orchards. Sow one to two bushels per acre. Price best seed \$2 per bu., subject to market changes.



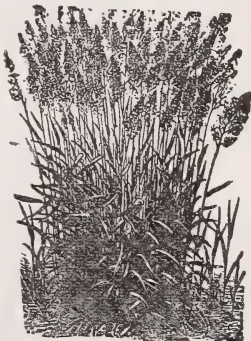
English Blue Grass

**TIMOTHY**—This well known grass is the best of all grasses for hay. Succeeds very well on all kinds of soil, but is well adapted to moderately moist land. Should be cut just when the blossom begins to fall. Can be sown in spring or fall. One bushel sows 3 acres. Is used in mixture with clover and other grasses to good advantage. Price per bu. \$1.25 to \$1.50, subject to market change. Bag extra, 15c to 18c each.

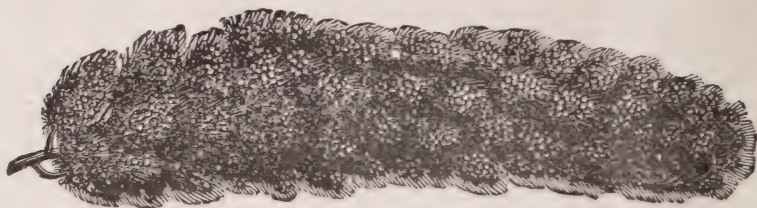


Timothy

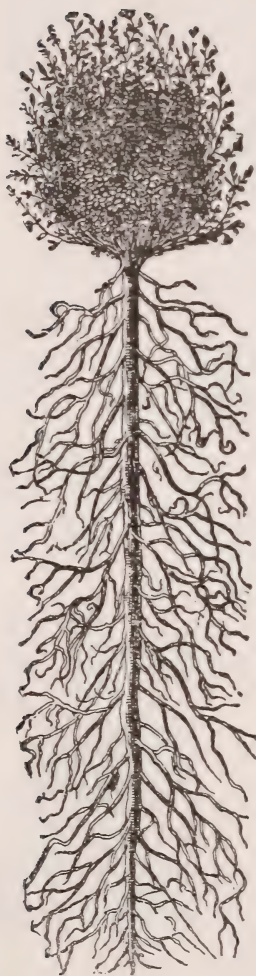
**RED TOP**—This grass is especially suited to low, wet spouty lands; is in fact the only grass which is a real success on such soil. It stands our northern winters, can be sown on wet land without cultivation, and will catch. Into the wet soils it spreads its network of roots, tames the land and in a few years makes a deep, substantial sod. The seed often comes in the chaff, but the only thing to plant is the solid seed clean from chaff. We quote good solid seed, very best, 15c per pound; 2 pounds 25c; per 100 pounds, \$8.00 to \$9.00; prices subject to market changes. Special price on large lots.



Red Top.



## PURE GERMAN MILLET



Of all the different kinds of grasses and forage plants raised for either hay or pasture, Millet is the most widely known and extensively used. If drouths wither or rains and floods drown out and destroy the early planted fields of grain, Millet is the farmer's next resort. The Pure German Millet, of all the well known kinds is by far the most valuable. This well known sort reaches the acme of perfection in the more southern states and it is a fact that when the southern grown seed is planted in the north it produces a taller stalk and heavier growth of foliage than can possibly be raised from our own northern grown seed. It is the judgment of those who have tried the seed from both sections side by side that the planter had better pay \$2.00 per bushel for pure southern grown German Millet than to have the other as a gift. See enclosed circular on Millet. Plant three-fourths bushel per acre.

Pure Southern Grown German Millet, bu.....\$1.00

Tennessee Grown German Millet, bu..... 1.50

Subject to market change. Bags, 18c each.

## ALFALFA CLOVER

This grand Clover forage plant is now a success everywhere. Every farmer has either heard of or knows its worth and merit. The plant grows, thrives and does well on any of our rolling prairies or well drained bottom lands. The vigorous roots searching for moisture sink deep into the ground, bringing to the surface the fertilizing materials stored in the earth for ages. It is a fertilizer, leaving the land richer and better for succeeding crops than when it was first sown. Three crops are often cut in one season, and from ten to twelve tons of excellent hay is the annual reward. As a pasture it unfolds like magic with the first smile of spring, a velvet of green the entire summer through, lasting late into fall and early winter. The young plants are tender; the seed should not be sown until the frost has left and the ground is warm. One bushel of 60 lbs. will sow three acres. It should not be cropped or pastured the first year. Can be planted with a light nurse crop, but should never be sown with any crop of grain. Buy seed early; it will doubtless be higher. Price per bushel 60 lbs., \$8.50 to \$9.50, according to quality, subject to change. Bags, 18c.



## DWARF ESSEX RAPE

Rape, as a pasture for cattle, hogs and sheep, is unequaled by any other plant. It can be planted with the spring crop, and is ready for pasture when the crop is gathered. Sow four to

six pounds to the acre. Price of fifteen lbs., \$1.00; special price on 100-lb. lots.



**Dwarf Essex Rape**

often destroy other crops. One farmer says his horses, cattle and hogs all eat it. As a rough provender it is unsurpassed. Crop of seed scarce this year. Market price.

## Sorghum

Sugar cane for fodder

The greatest forage and fodder plant in the world today. It will yield two crops of fodder and a good fall pasture in one season. It roots deep into the subsoil and stands the drouths that

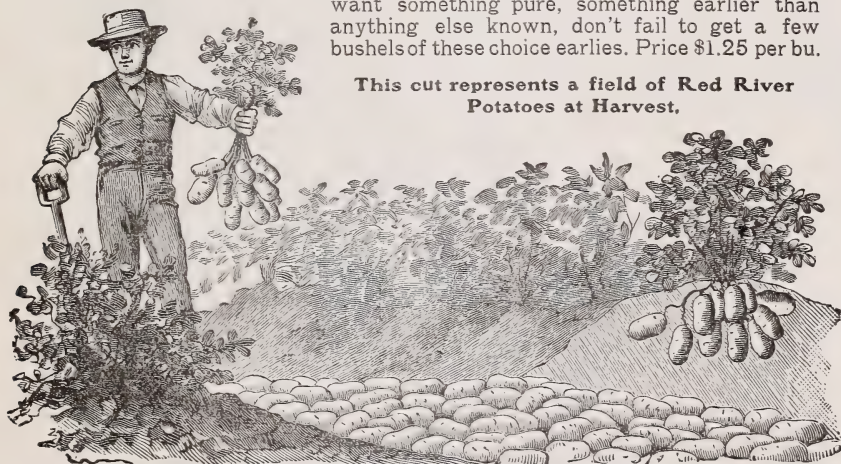


**SORGHUM—Sugar Cane**

## Red River, Ohio, And Early Triumph Seed Potatoes

The stock of Ohio Potatoes we offer were grown in the Red River valley. They are from ten days to two weeks earlier than the home grown. They are pure and free from scab, and were raised especially for seed stock. If you want something pure, something earlier than anything else known, don't fail to get a few bushels of these choice earlies. Price \$1.25 per bu.

This cut represents a field of Red River Potatoes at Harvest.



Prices Subject to being Sold Short and Market Changes PER BU.

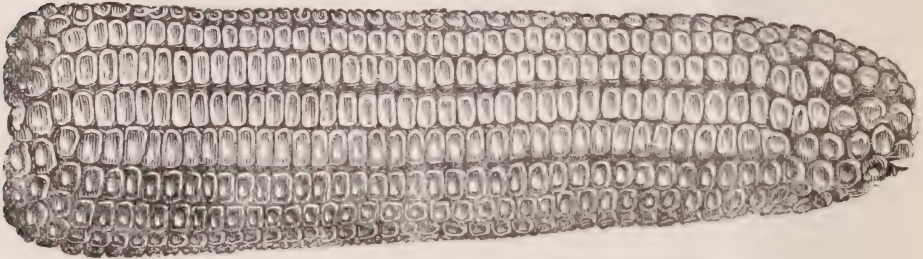
Red River Early Ohio.....	\$1 25
Bliss Early Triumph Red River Grown.....	1 50
Rural New Yorker.....(Special Low Prices on Quantity).....	1 00
<b>SEED SWEET POTATOES.....</b> per bbl., prices on application	

Tipped  
Selected

## SEED CORN

Tested  
Hand Shelled

We exercise great care in growing, selecting and handling our Corn for Seed, and are determined on handling only such as will grow and produce the best results. Every farmer knows the value of good Seed Corn, and would rather pay the price to get good, vital, well selected Seed Corn than to have cheap stuff for nothing. We give no guarantee of crop or guarantee of any kind, but we do give the real article, and if any one wishes to test our Seed Corn before planting and is not satisfied with results they can return the seed and get their money back.



### ✓PRIDE OF THE NORTH

The earliest of all yellow dent varieties. Has a deep bright yellow kernel tightly knit on a very small red cob. A good yielder and outshells all other varieties. Can be depended upon to a certainty in this section. Ripens in 90 days. Price, \$1.50 per bushel. Bags extra, 15c to 18c each.

✓ Michael's Mortgage Lifter, earliest big corn, long ear	\$1 25	per bushel
✓ Leaming's Early Golden Dent	1 25	"
✓ Armstrong's Rose Yellow Dent	1 25	"
✓ Gold Mine Yellow Dent	1 25	"
✓ Salzer's Triple Income Three Ear Corn	1 50	"
✓ Kattle King	1 25	"
✓ Early Flint Corn (early fodder)	1 00	"
✓ Longfellow Yellow Flint	1 25	"

### SPELTZ

An attractive new kind of grain brought to this country by the Russians. The United States department of agriculture recommends it as a grain for the semi-arid sections. It has great drought resisting features. It yields as much as oats and is a better feed. Sow two bushels to the acre. Price, per bu., \$0.75; 10 bu., \$6.00.

### BEARDLESS BARLEY

A Barley that is without beards, just as smooth as a head of smooth wheat—looks the same when threshed as the ordinary white Barley. Price 90c per bu.; 5 bu., \$4.00; 10 bu., \$7.50.

### SALZER'S SILVER KING BARLEY

A six-rowed bearded variety that yields an enormous crop. John Brilder, of Manatowac County, Wis., claims to have raised 173 bushels to the acre. Price, \$1.00 per bu. Stock limited.

### SPRING RYE

This Rye is a success. The straw is shorter and stiffer than the Winter sorts, and it is a better yielder. Plant as soon in spring as you can get it in the ground. Price, \$1.00 per bu. Winter Rye, \$0.75 per bu.





# SEED OATS

---

## BIG FOUR

The very best oats we grew here last season were Big Four. It has a **very white, big, plump kernel**, and this year certainly it is the brightest oat that we have. Then it has a stiff straw which stood up well last year in spite of the worst season for rain ever known. It is early, and a **great yielder**. Do not hesitate to plant Big Four. It will please you.

Per bu. (32 lbs.)....\$0 75  
10 bu. .... 6 00

## EARLY MICHIGAN

A splendid variety, and one that has given good results ever since its introduction. Earlier than most varieties, but a strong grower and a heavy yielder. It made a good crop last season.

Per bu. ....\$0 75  
10 bu. .... 6 00

## ALASKA

**Earliest of all Oats.** In fact, the most striking characteristic of the Alaska Oat is its extreme earliness. Two weeks earlier than other varieties. Said to ripen 60 days after sowing. Crop last year was cut before any barley, and before other oats had begun to turn. The straw is very stiff, oats pure white, and although the kernels are small, it is a **very prolific yielder**.

Per bu. ....\$1.00

# Fruit Tree Department

We handle only such kinds and varieties of trees, shrubs and plants as grow here and stand this climate. Stock strong, true to name, dug when wanted, and roots carefully packed in wet moss for shipping.

## APPLES

**KINGLY VARIETIES**—The horticulturists of the northwest place the following varieties of apples at head of list for hardiness and quality:

<b>Dutchess</b> —Summer	{ and highly recommend }	<b>Patten Greening</b> —Winter
<b>Wealthy</b> —Fall		<b>Hibernal</b> —Late Fall
<b>N. W. Greening</b> —Winter		<b>Yellow Transparent</b>

## CRAB APPLES

Every garden and farm should possess Crab Apples. Trees are ornamental, perfectly hardy and succeed in all kinds of soil. Annual bearers, usually fruiting the second season after planting.

**Whitney**

**Hyslop**

**Trancendent**

**Martha**

**Briar Sweet**

**Siberian Crabs**

## CHERRIES

The Cherry is the most valuable of all fruit trees for the Northwest; perfectly hardy, grows and thrives well on any of our soil. No insects affect it, an annual bearer; ornamental as well as valuable. Hardest varieties:

**Early Richmond**

**Wragg**

**Osthiem**

**Russian Lutovka**

## CHOICE NATIVE AND JAPAN PLUMS

Native plums as to quality and hardiness are: **DeSoto**, the best of all; **Wyant, Wolf, Forest, Garden, Hawkeye, Minor**.

Plums should be set in groups or clusters. Plum blossoms need fertilizing. Set different varieties near each other.

## VARIETIES OF JAPAN PLUMS

We have selected four varieties of the very best and hardest: **Burbank, Abundance, Red June and Ogón**.

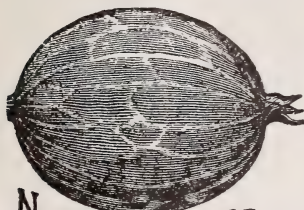
## PRICES

	AGE	SIZE	EACH	DOZ.	100
Apple and Crab .....	2 years	4 to 5 feet	\$0 20	\$2 00	\$12 50
“ “ “ .....	2 “	5 to 6 “	25	2 50	17 50
Cherry .....	2 “	4 to 5 “	40	4 50	27 50
“ .....	2 “	5 to 6 “	50	5 00	30 00
Plum .....	2 “	4 to 5 “	40	4 50	27 50
“ .....	2 “	5 to 6 “	50	5 00	30 00
Apple and Crab Root Grafts .....				per 1,000	7 00



## SMALL FRUIT

There is nothing that gives greater returns and more satisfaction than small fruits, and every family owning land from a small lot to a farm should have a "patch of small fruits." Northwestern Iowa produces the strongest and hardiest of small fruits.



NATURAL SIZE

Gooseberry

**BLACKBERRIES** 12 100  
Snyder—Hardest and best. \$0 40 \$1 50

**RASPBERRIES**  
Red, Cuthbert or Turner 40 1 50  
Black Gregg, Ohio, Older 40 1 50

**GOOSEBERRIES**  
Houghton, 1 year 40 2 00  
Houghton, 2 year 50 2 50  
Downing, 1 year 60 4 00  
Downing, 2 years 80 1 00

**CURRENTS**  
Red or White, 1 year 60 3 00  
Red or White, 2 year 80 5 00  
Fay's, 1 year (genuine) 60 4 00  
Fay's, 2 year (genuine) 80 6 00

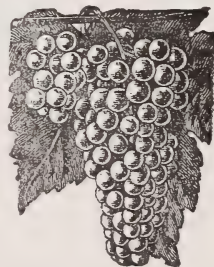
**GRAPES**—We quote on the hardest kinds :

	EACH	10	100
CONCORD--Black, hardy	10c	15c	\$0 60 \$0 75 \$4 00 \$6 00
NIAGARA--White, hardy	15c	20c	75 1 00 4 00 6 00
CLINTON--Black, hardy	15c	20c	1 00 1 50 ....

### STRAWBERRIES

The Experiment Station at Ames, Iowa, makes the following report: "From inquiries sent out to leading growers as to the best varieties for general planting, out of 23 replies 18 place Warfield and Bederwood in first place, Clyde second place, Lovett third place, Dunlap fourth place.

	25	100	500	1000
Prices	\$0 25	\$0 70	\$2 50	\$4 00



## ORNAMENTAL SHADE TREES

### Weeping Ornamental Trees

	1	5
Birch, Cut-Leaf Weeping	\$1 00	90c ea.
Mountain Ash, Weeping	75	50c "
Willow, New American	60	40c "
Mulberry, Tea's Weeping	1 00	80c "
Thurlof Weeping Willow	50	35c "
Weir's Cut-Leaf	30	22c "

### Ornamental Shade Trees

Kind	Size	1	5
Mountain Ash	5 to 6 ft.	40c	30c ea.
Mountain Ash, oak leaf	5 to 6 ft.	40c	35c "
Linden, European	5 to 6 ft.	35c	30c "
Poplar, Silver Leaf	5 to 6 ft.	35c	30c "
Maple, Hard	6 to 7 ft.	40c	35c "

### THE CAROLINA POPLAR

Is one of the most rapid growers among shade trees. Its branches spread just enough to give it a symmetrical appearance.

6 to 10 feet ..... 40c

### RUSSIAN OLIVE

One of the handsomest silver leaf ornamental trees; outgrows Ash, Elm, Box Elder. It is as hardy as an Oak; stands the North Dakota winter. Bears a fruit of a burnished silver, which hangs on till mid-winter. Most beautiful lawn tree.

	1	10	100
3 to 5 feet	\$0 35	\$3 00	\$5 00
Seeding, per 100			3 00

## ROSES

We carry none but the **very hardiest** varieties and the **very finest** bloomers. Many varieties are too tender for the northwest. Hothouse roses are worthless for outdoor planting—ours are field-grown. Our roses grown on their **own roots**, not grafted, are more easily transplanted, and hardy. **Pruning**—Before planting roses cut them back severely—cut back at least two to five inches. Don't leave them over six inches long.

### SUMMER ROSES

**Madame Plantier**—Hardy, pure white.  
**Persian Yellow**—Deep golden yellow, double.  
**Harrison Yellow**—Fine color, single.  
**Sweet Briar**—Rosy pink, single, foliage very fragrant. **50c each.**

### CLIMBING ROSES

**Baltimore Belle**—Pale blush, flowers in clusters.  
**Queen Prairie**—Bright rose, very hardy.  
**Seven Sisters**—Crimson, in clusters. **25c each.**

### RAMBLERS

**Crimson Rambler**—Rich crimson blossom.  
**White Rambler**—Pure pearl white.  
**Yellow Rambler**—Light canary.  
 If you have none of these grand climbing roses, you should not fail to get one. They are gaining in popularity every day and have been thoroughly tried. **30c each.**

### HYBRID PERPETUAL ROSES

**Gen. Jaqueminot**—Vivid crimson, hardy.  
**Paul Neyron**—Deep rose, strong grower.  
**Gen. Washington**—Perfectly double, soft scarlet.  
**Marshal P. Wilder**—Pink carmine, flowers large.  
**Magna Charta**—Bright, clear pink, sweet scented.  
**John Hopper**—Bright, rose pink.  
**M. P. Wilder**—Bright carmine, very fragrant. **25c each.**

### MOSS ROSES (Need no covering)

**Luxemburg**—Bright crimson, very hardy.  
**Henry Martin**—Glossy pink, very hardy.  
**Blanch Moreau**—Pure white, very hardy.  
**John Ingram**—Dark velvety purple. **30c each.**



**American Beauty**

This variety is an ever blooming hybrid perpetual. Flowers large, beautiful, very double, deep rich rose.

**Each 35c, 2 for 60c.**

**LILACS**—Do you love the Lilac? If so, we have something rare and beautiful; you should have a pair in your yard.

**Chas. X.**—Velvety purple, sweet scented; each 25c.

**Common White**—Same as above, except in color.

**Persian Purple**—Blooms very young.

### CLIMBING VINES

**Hall's Japan Honeysuckle**—The finest climber. Beautiful trumpet shaped flowers, sweet scented, extremely hardy.

**Scarlet Trumpet**—Blossoms freely entire season, bright red flowers. **25c ea.**

**CLEMATIS**—New Sweet-Scented **Paniculate**—Grows anywhere; very rapid and profuse bloomer; flowers pure white, in large clusters, converting the plant into a solid mass of white. Extreme hardiness, bright green foliage and fragrant flowers make this one of the finest hardy climbing plants. Will cover a porch or trellis in one season. **Each, 25c.**

### SPIREA VAN HOUTI-Bridal Wreath

We can say positively this shrub is the most attractive lawn shrub known. Has white flowers, astonishingly profuse in blooming. Very fine for cemetery.

**3 feet, each 30c.**



**JAPAN HONEYSUCKLE**

### Grandest Snowball



### Japan Snowball

The Japanese variety of the old fashioned Snowball is one of the most valuable of our most hardy shrubs. It blooms in a solid mass of large balls of flowers as white as snow. Each 30c to 50c. Old kind 25c to 40c.



## INCUBATORS---POULTRY SUPPLIES

### THE BURR HOT WATER INCUBATOR

The Burr Hot Water Incubator is the only one with an absolute guarantee that you get your money back after 30 days' trial if you are not satisfied with it. Made of the best California redwood, copper tank, double wafer regulator, patent egg tray. Try one; get your money back if you say so.

Prices on application. We are also agents for other Incubators.



### SHELLS, POULTRY SUPPLIES AND FEED

**Crushed Oyster Shells**--The Peerless Crushed Oyster Shells are kiln dried, sifted of dust and dirt after being ground, and should not be confounded with the trash often offered by cheap advertising houses, and which is  $\frac{1}{2}$  dust, lime and dirt. The Peerless shells are the greatest egg producing and health preserving brand of shells manufactured.



Peerless Oyster Shells.....	1 $\frac{1}{2}$ c lb	per 100 lbs \$1 00
Mica Crystal Grit.....	1 $\frac{1}{2}$ c lb	per 100 lbs 1 15
Crushed Bone.....	6 lbs for 25c	per 100 lbs 3 00
Ground Meat.....	6 lbs for 25c	per 100 lbs 3 00
Egg Food.....		25c per package
Chicken Feed (mixed).....		60c to 75c per 100 lbs
Hemp, Rape or Canary Seed.....		per lb \$0 08
Mixed Bird Seed.....		per lb 05

### CHICK FOOD

More small chicks die between the fourth and eighth days than any other ten days of their growth. The first feeds are the important ones. Clean grain, seeds, grit and muscle power material is what they need. The first food is the yolk, which they absorb in thirty to fifty hours. Then they are ready for small feeds of knickknacks. The material in **MRS. PINKERTON'S CHICK FOOD** takes the place of green stuff, bugs, worms, etc., and is a well balanced ration for small chicks.

Prices--25-lb sack, \$1.00; 50-lb sack, \$1.50; 100-lb sack, \$2.75.

### ANIMAL FOODS

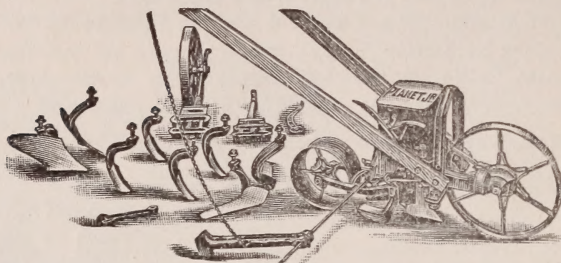
**Swift's Animal and Poultry Foods** are by-products resulting from the manufacture of dressed meats intended for human consumption. They contain nothing but Meat, Bone and Blood, as the case may be, and are in the form of meal in varying degrees of fineness. As they contain but a small amount of moisture, they may be kept indefinitely.

**SWIFT'S DIGESTER TANKAGE** contains 60 per cent. protein. Great balance ration for shoats and pigs. Per ton.....\$40 00

**SWIFT'S BLOOD MEAL** contains 87 per cent. protein, and is cheaper and better than bran, oilmeal or cottonseed meal. Per ton...\$50 00

# HEADQUARTERS

For Full and Complete Line of Planet, Jr., Garden  
TOOLS AND REPAIRS



No. 25—Combined  
Hill and Drill  
Seeder and Double  
Wheel Hoe,  
Cultivator and  
Plow.

Price ....\$13.50

As a drill only, single  
wheel. \$8.50

No. 1. Combined Drill and Seeder .....	\$9.50
No. 2. Drill Seeder .....	7.50
Double Wheel Hoe, complete .....	\$7.00
Double Wheel Hoe, plain .....	4.75

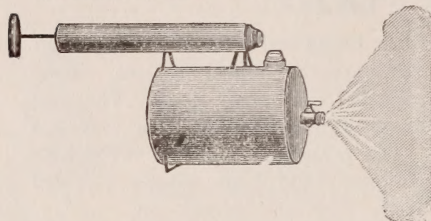


"Indiana" Broadcast Seed Sower  
price, each.....\$1.00  
Columbia Seeder..... 1.50

**LANG'S**  
**HAND**  
**WEEDER**  
**HANDIEST**  
**TOOL**  
**ON EARTH.**



30¢  
BY MAIL  
PREPAID



CHEAPER than CORN STALKS  
Protect your Trees with

Veneered Tree Protectors

A positive protection against  
rabbits, mice, sun-scald and  
barking by careless cultivation.  
Will last for years.

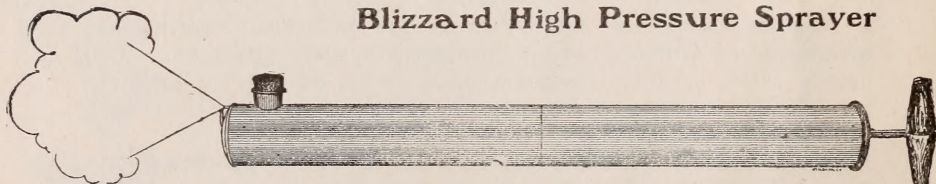


**A Perfect Little Blizzard**

For small orchards and fruit patches  
there is nothing like it .....\$2.00

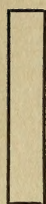
Price per 100, \$1.25

**Blizzard High Pressure Sprayer**

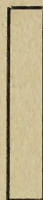


We want to put to our customers the very best hand sprayer made. We have  
carefully examined half a dozen of the different patents, and we unhesitatingly say  
to our friends that this hand sprayer is the best spray we ever saw. It is the easiest  
to work, and gives a continuous spray. Price, each .....75c





**INTER  
STATE**



# **LIVE STOCK FAIR**



**SIoux CITY, IOWA**

**SEPTEMBER 5, 6, 7, 8, 9 AND 10, 1904**

**Send for  
Premium List**

**\$30,000**

**IN  
PREMIUMS  
AND  
PURSES**

**BETTER  
THAN EVER**

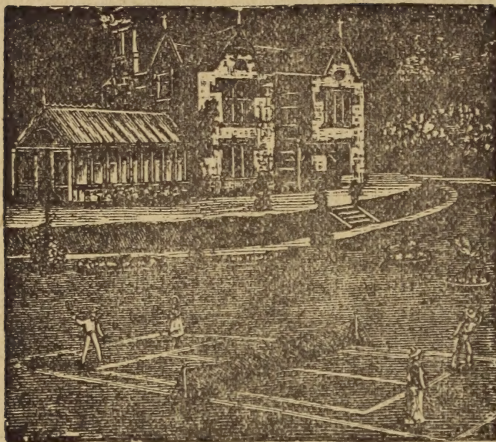


**F. L. EATON, President**  
**F. L. WIRICK,**  
**Secretary**





# Evergreen Lawn Grass



## Lawn Grass

Requires a deep, well prepared soil. Our Fancy Central Park Mixture comes quick, is made up of the finest grasses and is so blended as to give a continuous green, velvety turf the entire season through. Should be sown at rate of 3 bushels per acre, 1 lb. to 500 sq. feet of lawn.

## Kentucky Blue Grass

Fcy. quality for Lawns  
Price, 15c per Pound

Central Park Mixture—Price 15c per lb.

Sweet Scented, Beautiful Shell Pink Flowers



Most Useful Rose for Arches and Porches

## DOROTHY PERKINS

A new variety—distinct from all others. Hardy. Each, 50c; two for...80c

# MICHAEL'S SEED STORE

J. S. MICHAEL, Prop.

Telephone 1036-L4

316 Pearl Street

SIOUX CITY, IA.